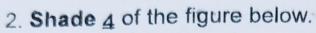
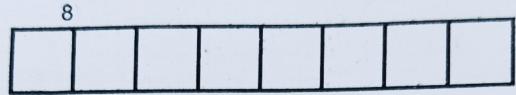
## SECTION A: 40 MARKS

Attempt all questions in this section.

Questions 1 to 20 carry 2 marks each.

1. Work out: 65 + 43





3. Write 40,001 in words.

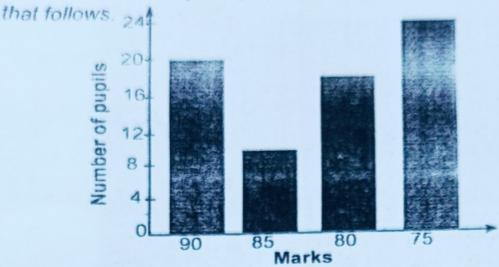
4. Given that set **A**={1,2,3,4,5,6} and set **B**={1,3,5,7,9}. List the elements in **A∩B**.

5. Find the next number in the sequence:

19, 15, 13, 9, 7, \_\_\_\_\_

6. Write 219 in Roman numerals.

The bar graph below shows marks scored by pupils in an examination. Study the graph and use it to answer the question



- 7. Find the total number of the pupils who scored above 80 marks.
- 8. Write 0.07050 in standard form.

9. Work out: 6 - (0.5)2

10. **Solve**: t - 3 = 2(finite 5)

11. Find the perimeter of a square whose area is 400m<sup>2</sup>.

12. Given that 2b = 8, find the value of 5b.

13. One afternoon, Mayo slept for 2 hours and woke up at the time shown on the clock face below. At what time did she go to bed?



14. A 250g packet of groundnuts costs sh.500. How much will a parent pay for packets that weigh 2kg?

15. Use a protractor to draw an angle of 105°.



P.7 MATHEMATICS SPECIAL SET EXAMINATIONS - 2024

IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY MORE SENTENCE OF THE PROPERTY OF T

3

16. Simplify: 1 (2a - 8) 2

- 17.Kato bought a goat for sh.190,000. At what price should be sell it in order to gain sh.45,000?
- 18.Given that represented by ?

- 19. The interior angle of a regular polygon is **135°**. Find the number of sides of the polygon.
- 20. Given that  $2^m \times 5^n = 200$ , find the value of m and n.



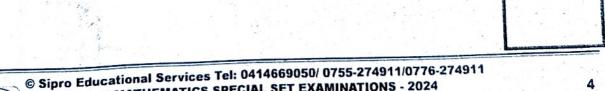
**16. Simplify**: 1 (2a – 8)

17. Kato bought a goat for sh.190,000. At what price should be sell it in order to gain sh.45,000?

18. Given that represents 30 balls, how many balls are represented by ( ??

19. The interior angle of a regular polygon is 135°. Find the number of sides of the polygon.

20. Given that  $2^m \times 5^n = 200$ , find the value of m and n.





P.7 MATHEMATICS SPECIAL SET EXAMINATIONS - 2024

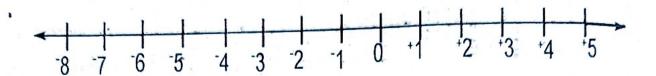
## SECTION B: 60 WARKS

Attempt all questions in this section.

Marks for each part of the question are indicated in the brackets.

21.(a) Work out: -4 - -7 using the number line below.

(03 marks)



(b) Find the solution set that satisfies the inequality below; 2<x <7 (02 marks)

22.(a) Using a ruler, a pencil and a pair of compasses only, construct a triangle JKL in which JK=7 cm, angle JKL = 60° and angle KLJ =45°.

(b) Measure line KL.

(01 mark)

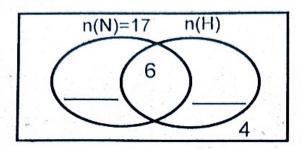


Duton a group of lishermon, in escribed in the

(H) only, 6 use both nets and hooks, and 4 use other fishing equipment.

(a) Complete the Venn diagram below using the information given (02 marks)

above.



(b) If 24 fishermen use only one of the mentioned fishing equipment;

i) find the value of k.

(02 marks)

ii) find the total number of the fishermen in the whole group. (02 marks)

24. The number of cows on Gateete's farm decreased in the ratio of 2:5 after selling 36 cows.

(a) Calculate the total number of cows that Gateete's farm had before selling. (02 marks)

## (b) Find the number of cows that remained on the farm.

(02 marks)



(02 marks)

(b) **Solve** for y: 
$$3(y+1)-2(4-y)=25$$

(03 marks)

## 26. Shamim went shopping and bought the fruits shown in the table below:

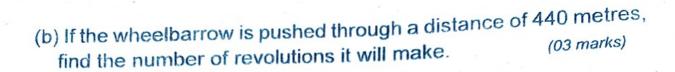
Item	Quantity	Unit cost	Amount
pineapples	2 pineapples	Sh.4,200 each pineapple	sh.8,400
oranges	6 oranges	Shfor 3 oranges	sh.30,000
apples	apples	Sh.1,500 an apple	sh
Total expenditure			sh.42,900

(a) Complete the table

(04 marks)

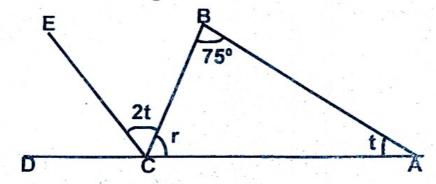


(b) If Shamim remained with Sh.5,000, how much did she first?	have at (02 marks)
7. In a class, there are 40 girls and 60 boys. One Friday, 1/4 were absent and 2 of the boys were present.	
(a) Find the number of pupils who were absent that Frida	(03 marks)
(b) Find the fraction of the whole class that was present	that
Friday.	(02 marks)
28. The radius of a wheel of a wheelbarrow is (x - 4) cm a ameter is (x + 10) cm;	and its di
(a) Find the value of x.	(02 marks)





29. In the figure below, AD is a straight line, angle ECD = angle ECB and ABC is a triangle. Use it to answer the questions that follow.



Find the size of; (a) angle t.

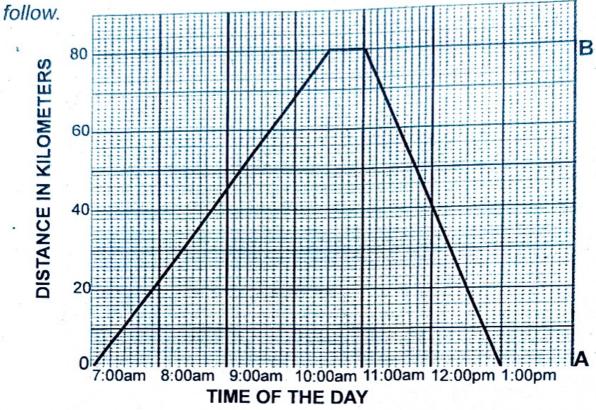
(02 marks)

(b) angle r

(02 marks)

speed of
(02 marks)
home and (03 marks)
elow in 12
(02 marks)
(03 marks

32. The travel graph below shows a journey by bus from town A to town B and back to town A. Use it to answer the questions that



- (a) Find the total time taken by the bus over the entire journey.

  (01 mark)
- (b) How much longer did the bus take to travel from town A to town B than it took to travel from town B to town A? (02 marks)

(c) Calculate the average speed of the bus over the whole journey.

(02 marks)